

WHAT IS CLAIMED IS:

1. A sash for windows and doors provided with an anti-dewing hot wire, in which a double-layered glass, including an indoor sheet of glass and an outdoor sheet of glass spaced from each other by a spacer filled with a desiccant, is fixedly installed on a sash frame including a plurality of frame members, each of which is provided with a reception groove formed in one surface thereof and a hollow formed therein, and an edge of the double-layered glass is sealed with a sealant, comprising:

a hot wire for generating heat by means of supplied power, attached along an edge of the inner surface of the indoor sheet of glass of the double-layered glass,

a through hole for passing an electric wire electrically connected to the hot wire, formed through a designated portion of the spacer located on lower portions of the indoor and outdoor sheets of glass of the double-layered glass, and

a controller, which is connected to the electric wire for controlling the output of a power supply unit for supplying a driving voltage to the hot wire according to a user's manipulation signal, located in the hollow of a lower frame of the sash frame.

2. The sash as set forth in claim 1, further comprising a surface temperature sensor for sensing the surface temperature of the indoor sheet of glass attached to the surface of the indoor sheet of glass, and a rated controller for comparing the surface temperature input from the surface temperature sensor to the current dew point temperature of the atmosphere, which is already stored in the rated controller, installed in the controller.

3. The sash as set forth in claim 1, wherein the power supply unit includes a connector

located at one side of the sash frame, which is electrically connected to an input terminal of the controller and corresponds to a terminal of a cable so that utility power is applied to the connector through the cable.

5        4.        The sash as set forth in claim 3, wherein the power supply unit includes a solar power module, including a plurality of photovoltaic cells, attached to an outer surface of the sash frame for supplying power to the hot wire, and a battery or charging unit, in which DC power input from the solar battery module is stored, installed in the hollow of the lower frame of the sash frame.

10  
5        5.        The sash as set forth in claim 4, wherein the power supply unit supplies power to the hot wire when the sash frame contacts a window frame supporting the sash frame, and a power input terminal protrudes from a designated position in the sash frame, and a power output terminal protrudes from a designated position in the window frame so that the power  
15        output terminal corresponds to the power input terminal and is connected to a utility power source.

20        6.        The sash as set forth in claim 1, wherein the through hole includes an insulating guide unit for insulating the electric wire passing through the through hole from the surface of the spacer, provided on an inner surface of the through hole, and said insulating guide unit includes a guide hole for protecting and guiding the electric wire, and an insulating board provided around the outer circumference of the guide hole for insulating the electric wire from the surface of the spacer.